F-2

URBEMIS2002 Model Printouts, prepared by BonTerra Consulting, February 11, 2007

Page: 1 02/11/2007 1:35 PM

#### URBEMIS 2002 For Windows 8.7.0

File Name: P:\Northlake Air Quality

Files\Nothlake\_Opeational\_v2.urb

Project Name: Northlake\_Operational\_v2

Project Location: South Coast Air Basin (Los Angeles area)

On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

#### SUMMARY REPORT (Pounds/Day - Summer)

#### CONSTRUCTION EMISSION ESTIMATES PM10 PM10 PM10 \*\*\* 2005 \*\*\* ROG S02 NOX CO **TOTAL EXHAUST DUST** TOTALS (lbs/day,unmitigated) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 TOTALS (lbs/day, mitigated) 0.00 0.00 PM10 PM10 PM10 \*\*\* 2006 \*\*\* ROG NOx CO S02 **TOTAL EXHAUST DUST** 0.22 TOTALS (lbs/day,unmitigated) 759.37 1,329.60 1,680.67 61.1258.53 2.59 TOTALS (lbs/day, mitigated) 801.26 335.13 0.22 4.50 589.75 2.59 1.91 AREA SOURCE EMISSION ESTIMATES ROG NOx CO S02 PM10 TOTALS (lbs/day,unmitigated) 149.98 20.60 58.43 0.57 0.23 OPERATIONAL (VEHICLE) EMISSION ESTIMATES ROG NOx CO S02 PM10 TOTALS (lbs/day,unmitigated) 159.53 1.880.82 171.17 1.10 167.13 SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES ROG NOx S02 PM10

Page: 2 02/11/2007 1:35 PM

URBEMIS 2002 For Windows 8.7.0

309.51

File Name: P:\Northlake Air Quality

Files\Nothlake\_Opeational\_v2.urb

TOTALS (lbs/day,unmitigated)

Project Name: Northlake\_Operational\_v2

Page 1

1,939.25

191.78

1.68

167.36

Project Location: South Coast Air Basin (Los Angeles area) On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

# SUMMARY REPORT (Pounds/Day - Winter)

Du10 Du10					PM10
PM10 PM10 *** 2005 ***	ROG	NOx	СО	S02	TOTAL
EXHAUST DUST TOTALS (lbs/day,unmitigated)	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00
2110					PM10
PM10 PM10 *** 2006 *** EXHAUST DUST	ROG	NOx	СО	so2	TOTAL
TOTALS (1bs/day,unmitigated) 58.53 2.59	759.37	1,329.60	1,680.67	0.22	61.12
TOTALS (lbs/day, mitigated) 1.91 2.59	589.75	801.26	335.13	0.22	4.50
AREA SOURCE EMISSION ESTIMATES					
TOTALS (lbs/day,unmitigated)	ROG 1,135.73	NOX 53.99	CO 1,825.48	SO2 4.32	PM10 270.80
OPERATIONAL (VEHICLE) EMISSION	ESTIMATES ROG	NOx	СО	S02	PM10
TOTALS (1bs/day,unmitigated)	147.86	248.13	1,777.32	0.91	167.13
SUM OF AREA AND OPERATIONAL EM	ISSION EST	IMATES			
TOTALS (lbs/day,unmitigated)	ROG 1,283.60	NOX 302.12	CO 3,602.80	SO2 5.23	PM10 437.93

Page: 3 02/11/2007 1:35 PM

# URBEMIS 2002 For Windows 8.7.0

P:\Northlake Air Quality File Name:

Files\Nothlake\_Opeational\_v2.urb

Project Name:

Project Location:

On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT (Tons/Year)

### CONSTRUCTION EMISSION ESTIMATES

						PM10
PM10 *** 2005	PM10 ***	ROG	NOX Page 2	СО	S02	TOTAL

	orthlake_u	JRBEMIS Re	sult.txt		
EXHAUST DUST TOTALS (tpy, unmitigated)	0.00	0.00	0.00	0.00	0.00
0.00 0.00 TOTALS (tpy, mitigated) 0.00 0.00	0.00	0.00	0.00	0.00	0.00
					PM10
PM10 PM10 *** 2006 *** EXHAUST DUST	ROG	NOX	СО	so2	TOTAL
TOTALS (tpy, unmitigated)	87.02	87.87	116.52	0.01	4.13
3.87 0.26 TOTALS (tpy, mitigated) 0.13 0.26	75.83	53.03	27.72	0.01	0.39
AREA SOURCE EMISSION ESTIMATE:	S				
TOTALS (tpy, unmitigated)	ROG 64.59	NOX 4.82	CO 80.44	S02 0.23	PM10 11.10
OPERATIONAL (VEHICLE) EMISSION	N ESTIMATI	ES			
TOTALS (tpy, unmitigated)	ROG 28.40	NOX 35.92	CO 336.95	SO2 0.19	PM10 30.50
SUM OF AREA AND OPERATIONAL E			60	503	DW10
TOTALS (tpy, unmitigated)	ROG 93.00	NOX 40.74	CO 417.39	SO2 0.42	PM10 41.60

Page: 4 02/11/2007 1:35 PM

URBEMIS 2002 For Windows 8.7.0

P:\Northlake Air Quality File Name:

Files\Nothlake\_Opeational\_v2.urb

Project Name: Northlake\_Operational\_v2

Project Location: South Coast Air Basin (Los Angeles area)

On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT (Pounds/Day - Winter)

Construction Start Month and Year: January, 2005

Construction Duration: 24
Total Land Use Area to be Developed: 0 acres Maximum Acreage Disturbed Per Day: 0 acres Single Family Units: 1270 Multi-Family Units: 480 Retail/Office/Institutional/Industrial Square Footage: 304920

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (1bs/day)

Du10					PM10	PM10
PM10 Source	ROG	NOx	СО	S02	TOTAL	
EXHAUST DUST *** 2005***						
Phase 1 - Demolition Emissions Fugitive Dust	_	_	_	_	0.00	
3		Page 3				

Page 3

	orthlake_	URBEMIS Res	ult.txt		
- 0.00 Off-Road Diesel	0.00	0.00	0.00	_	0.00
0.00 0.00 On-Road Diesel	0.00	0.00	0.00	0.00	0.00
0.00 0.00 Worker Trips	0.00	0.00	0.00	0.00	0.00
0.00 0.00 Maximum lbs/day 0.00 0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissi Fugitive Dust - 0.00	ons -	-	-	-	0.00
Off-Road Diesel	0.00	0.00	0.00	_	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00
0.00 0.00 Worker Trips	0.00	0.00	0.00	0.00	0.00
0.00 0.00 Maximum lbs/day 0.00 0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Constructi Bldg Const Off-Road Diesel 0.00 0.00	on 0.00	0.00	0.00	-	0.00
Bldg Const Worker Trips 0.00 0.00	0.00	0.00	0.00	0.00	0.00
Arch Coatings Off-Gas	0.00	-	-	_	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	_		_	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips 0.00 0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day 0.00 0.00	0.00	0.00	0.00	0.00	0.00
Max lbs/day all phases 0.00 0.00	0.00	0.00	0.00	0.00	0.00
*** 2006***  Phase 1 - Demolition Emission  Fugitive Dust  - 0.00	ns -	-	-	-	0.00
Off-Road Diesel 0.00 0.00	0.00	0.00	0.00	-	0.00
On-Road Diesel 0.00 0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips 0.00 0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day 0.00 0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissi Fugitive Dust - 0.00	ions -	-	-	-	0.00
Off-Road Diesel	0.00	0.00 Page 4	0.00	-	0.00

	Northlake	_URBEMIS R	esult.txt		
0.00 0.00 On-Road Diesel 0.00 0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00
0.00 0.00 Maximum lbs/day 0.00 0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construct	ion				
Bldg Const Off-Road Diesel 58.08 0.00		1,307.67	1,492.57	-	58.08
Bldg Const Worker Trips 0.08 1.29	7.74	4.38	92.81	0.01	1.37
Arch Coatings Off-Gas	552.45	-	-	-	-
Arch Coatings Worker Trips 0.08 1.29	7.74	4.38	92.81	0.01	1.37
Asphalt Off-Gas	2.98	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00
Asphalt On-Road Diesel	0.67	13.17	2.48	0.20	0.30
0.29 0.01 Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00
0.00 0.00 Maximum lbs/day 58.53 2.59	759.37	1,329.60	1,680.67	0.22	61.12
Max 1bs/day all phases 58.53 2.59	759.37	1,329.60	1,680.67	0.22	61.12

Page: 5 02/11/2007 1:35 PM

Phase 1 - Demolition Assumptions: Phase Turned OFF

Phase 2 - Site Grading Assumptions Start Month/Year for Phase 2: Jan '05 Phase 2 Duration: 12 months

On-Road Truck Travel (VMT): 0

Off-Road Equipment No. Туре Horsepower Load Factor

Phase 3 - Building Construction Assumptions Start Month/Year for Phase 3: Jan '06 Phase 3 Duration: 12 months

Start Month/Year for SubPhase Building: Jan '06 SubPhase Building Duration: 6 months

Off-Road Equipment

No.	Туре	Horsepower	Load Factor	Hours/Day
4	Graders	174	0.575	8.0
6	Off Highway Trucks	417	0.490	8.0
8	Other Equipment	190	0.620	8.0
8	Rubber Tired Dozers	352	0.590	8.0
3	Rubber Tired Loaders	165	0.465	8.0
30	Scrapers	313	0.660	8.0
Start M	Month/Year for SubPhase Architectura	l Coatings:	Jan '06	

Hours/Day

Page 5

Northlake\_URBEMIS Result.txt
SubPhase Architectural Coatings Duration: 12 months
Start Month/Year for SubPhase Asphalt: Jan '06
SubPhase Asphalt Duration: 6 months
Acres to be Paved: 150
Off-Road Equipment
No. Type

Horsepower Load Factor Hours/Day

CONSTRUCTION EMISSION ESTIMATES	MITIGAT	ED (lbs/da	y)		PM10	PM10
PM10	DOC	NOv	60	603	TOTAL	
Source EXHAUST DUST	ROG	NOx	CO	S02	TOTAL	
*** 2005***						
Phase 1 - Demolition Emissions Fugitive Dust	_	_	_	_	0.00	
- 0.00						
Off-Road Diesel 0.00 0.00	0.00	0.00	0.00	-	0.00	
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	
0.00 0.00 Worker Trips	0.00	0.00	0.00	0.00	0.00	
0.00 0.00						
Maximum lbs/day 0.00 0.00	0.00	0.00	0.00	0.00	0.00	
Phase 2 - Site Grading Emission Fugitive Dust	S _	_	_	_	0.00	
- 0.00						
Off-Road Diesel 0.00 0.00	0.00	0.00	0.00	-	0.00	
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	
Worker Trips	0.00	0.00	0.00	0.00	0.00	
0.00 0.00 Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	
0.00 0.00						
Phase 3 - Building Construction						
Bldg Const Off-Road Diesel	0.00	0.00	0.00	-	0.00	
0.0Ō 0.00 Bldg Const Worker Trips	0.00	0.00	0.00	0.00	0.00	
0.00 0.00 Arch Coatings Off-Gas	0.00	_	_	_	_	
		0.00	0.00	0.00	0.00	
Arch Coatings Worker Trips 0.00 0.00	0.00	0.00	0.00	0.00	0.00	
Asphalt Off-Gas	0.00	-	-	-	-	
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	
0.00 0.00 Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	
0.00 0.00 Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	
0.00 0.00 Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	
0.00 0.00						
Max 1bs/day all phases 0.00 0.00	0.00	0.00	0.00	0.00	0.00	

		URBEMIS Re	sult.txt		
Phase 1 - Demolition Emission Fugitive Dust - 0.00	is -	-	_	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00
0.00 0.00 On-Road Diesel	0.00	0.00	0.00	0.00	0.00
0.00 0.00 Worker Trips 0.00 0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day 0.00 0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissi Fugitive Dust	ons -	_	-	-	0.00
- 0.00 Off-Road Diesel 0.00 0.00	0.00	0.00	0.00	-	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00
0.00 0.00 Maximum lbs/day 0.00 0.00	0.00	0.00	0.00	0.00	0.00
Page: 6 02/11/2007 1:35 PM					
Phase 3 - Building Constructi Bldg Const Off-Road Diesel	on 18.78	784.60	149.26	-	1.74
1.74 0.00 Bldg Const Worker Trips	7.74	4.38	92.81	0.01	1.37
0.08 1.29 Arch Coatings Off-Gas	552.45		-		-
Arch Coatings Worker Trips 0.08 1.29	7.74	4.38	92.81	0.01	1.37
0.08 1.29 Asphalt Off-Gas	2.98	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00
Asphalt On-Road Diesel	0.07	7.90	0.25	0.20	0.02
0.01 0.01 Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00
0.00 0.00 Maximum lbs/day 1.91 2.59	589.75	801.26	335.13	0.22	4.50
Max lbs/day all phases 1.91 2.59	589.75	801.26	335.13	0.22	4.50

# Construction-Related Mitigation Measures

Phase 2: Soil Disturbance: Apply soil stabilizers to inactive areas Percent Reduction(ROG 0.0% NOX 0.0% CO 0.0% SO2 0.0% PM10 30.0%)
Phase 2: Soil Disturbance: Replace ground cover in disturbed areas quickly Percent Reduction(ROG 0.0% NOX 0.0% CO 0.0% SO2 0.0% PM10 15.0%)
Phase 2: Soil Disturbance: Water exposed surfaces - 3x daily
Page 7

```
Northlake_URBEMIS Result.txt
    Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 50.0%)
 Phase 2: Off-Road Diesel Exhaust: Use diesel particulate filter
    Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 80.0%)
 Phase 2: Off-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR)
Percent Reduction(ROG 90.0% NOX 40.0% CO 90.0% SO2 0.0% PM10 85.0%)
Phase 2: On-Road Diesel Exhaust: Use diesel particulate filter
    Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 80.0%)
 Phase 2: On-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR)
    Percent Reduction(ROG 90.0% NOx 40.0% CO 90.0% SO2 0.0% PM10 85.0%)
 Phase 2: Stockpiles: Cover all stock piles with tarps
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 9.5%)
 Phase 2: Unpaved Roads: Water all haul roads 3x daily Percent Reduction(ROG 0.0% NOX 0.0% CO 0.0% SO2 0.0% PM10 45.0%)
 Phase 2: Unpaved Roads: Reduce speed on unpaved roads to < 15 mph Percent Reduction(ROG 0.0% NOX 0.0% CO 0.0% SO2 0.0% PM10 40.0%)
 Phase 3: Off-Road Diesel Exhaust: Use diesel particulate filter Percent Reduction(ROG 0.0% NOX 0.0% CO 0.0% SO2 0.0% PM10 80.0%)
 Phase 3: Off-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR) Percent Reduction(ROG 90.0% NOX 40.0% CO 90.0% SO2 0.0% PM10 85.0%)
 Phase 3: Off-Road Diesel Exhaust: Use diesel particulate filter
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 80.0%)
Phase 3: Off-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR)
Percent Reduction(ROG 90.0% NOX 40.0% CO 90.0% SO2 0.0% PM10 85.0%)
 Phase 3: On-Road Diesel Exhaust: Use diesel particulate filter
    Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 80.0%)
 Phase 3: On-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR)
    Percent Reduction(ROG 90.0% NOX 40.0% CO 90.0% SO2 0.0% PM10 85.0%)
Phase 1 - Demolition Assumptions: Phase Turned OFF
Phase 2 - Site Grading Assumptions
Start Month/Year for Phase 2: Jan '05 Phase 2 Duration: 12 months
On-Road Truck Travel (VMT): 0
Off-Road Equipment
  No.
             Type
                                                             Horsepower
                                                                                Load Factor
                                                                                                      Hours/Day
Phase 3 - Building Construction Assumptions
Start Month/Year for Phase 3: Jan '06
Phase 3 Duration: 12 months
Start Month/Year for SubPhase Building: Jan '06
SubPhase Building Duration: 6 months
  Off-Road Equipment
             туре
  No.
                                                             Horsepower
                                                                                Load Factor
                                                                                                      Hours/Day
                                                                 174
                                                                                   0.575
                                                                                                          8.0
             Graders
      6
             Off Highway Trucks
                                                                                   0.490
                                                                                                          8.0
                                                                  417
                                                                                                          8.0
                                                                 190
                                                                                   0.620
             Other Equipment
             Rubber Tired Dozers
      8
                                                                  352
                                                                                   0.590
                                                                                                          8.0
             Rubber Tired Loaders
                                                                  165
                                                                                   0.465
                                                                                                          8.0
             Scrapers
                                                                                   0.660
                                                                                                          8.0
   Start Month/Year for SubPhase Architectural Coatings: Jan '06
   SubPhase Architectural Coatings Duration: 12 months
   Start Month/Year for SubPhase Asphalt: Jan '06
   SubPhase Asphalt Duration: 6 months
   Acres to be Paved: 150
  Off-Road Equipment
                                                             Horsepower Load Factor
                                                                                                      Hours/Day
  No.
             Type
```

Page: 7 02/11/2007 1:35 PM

Page: 8 02/11/2007 1:35 PM

AREA SOURCE EMISSION ESTIMATES	(Winter	Pounds per	Day, Unmi	tigated)	
Source	ROG	•	CO	SO2	PM10
Natural Gas	1.57	20.34	8.99	0	0.04
Hearth	993.30	33.65	1,816.49	4.32	270.76
Landscaping - No winter emiss	ions		•		
Consumer Prdcts	85.62	_	_	_	_
Architectural Coatings	55.25	_	-	-	-
TOTALS(lbs/dav.unmitigated)	1.135.73	53.99	1.825.48	4.32	270.80

Page: 9 02/11/2007 1:35 PM

#### UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	S02	PM10
Single family housing	109.69	183.35	1,316.10	0.67	123.45
Apartments low rise	29.96	49.96	358.65	0.18	33.64
Industrial park	8.21	14.82	102.57	0.05	10.04
•					
TOTAL EMISSIONS (lbs/day)	147.86	248.13	1,777.32	0.91	167.13

Does not include correction for passby trips.

Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2007 Temperature (F): 50 Season: Winter

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Total Units Trips
Single family housing Apartments low rise Industrial park	423.33 30.00	9.57 trips/dwelling unit 6.90 trips/dwelling unit 63.11 trips/acres	1,270.0012,153.90 480.00 3,312.00 14.00 883.54

Sum of Total Trips 16,349.44
Total Vehicle Miles Traveled 110,094.09

Vehicle Assumptions:

Fleet Mix:

Vehicle Type Light Auto	P	ercent Type 55.20	Non-Catalyst 1.80	Catalyst 97.80	Diesel 0.40
Light Truck < 3,750	1bs	15.10	3.30	94.00	2.70
gc			Page 9		

	Northlak	e_URBEMIS Result.txt		
Light Truck 3,751- 5,750	16.10	1.90	96.90	1.20
Med Truck 5,751- 8,500	7.10	1.40	95.80	2.80
Lite-Heavy 8,501-10,000	1.10	0.00	81.80	18.20
Lite-Heavy 10,001-14,000	0.40	0.00	50.00	50.00
Med-Heavy 14,001-33,000	1.00	0.00	20.00	80.00
Heavy-Heavy 33,001-60,000	0.90	0.00	11.10	88.90
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.10	0.00	0.00	100.00
Motorcycle	1.70	82.40	17.60	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	1.20	8.30	83.30	8.40

Travel Conditions

Traver conditions	Residential			Commercial		
	11.5	Home- Shop 4.9 4.9 40.0 37.0	Home- Other 6.0 6.0 40.0 43.0	Commute 10.3 10.3 40.0	Non-Work 5.5 5.5 40.0	Customer 5.5 5.5 40.0
% of Trips - Commercial (b Industrial park	y land	use)		41.5	20.8	37.8

Page: 10 02/11/2007 1:35 PM

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Construction

The user has overridden the Default Phase Lengths

Phase 2 mitigation measure Soil Disturbance: Apply soil stabilizers to inactive

has been changed from off to on.

Phase 2 mitigation measure Soil Disturbance: Replace ground cover in disturbed areas quickly

has been changed from off to on.

Phase 2 mitigation measure Soil Disturbance: Water exposed surfaces - 3x daily has been changed from off to on.

Phase 2 mitigation measure Off-Road Diesel Exhaust: Use diesel particulate filter has been changed from off to on.

Phase 2 mitigation measure Off-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR)

has been changed from off to on.

Phase 2 mitigation measure On-Road Diesel Exhaust: Use diesel particulate filter has been changed from off to on.

Phase 2 mitigation measure On-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR)

has been changed from off to on.

Phase 2 mitigation measure Stockpiles: Cover all stock piles with tarps has been changed from off to on.

Phase 2 mitigation measure Unpaved Roads: Water all haul roads 3x daily has been changed from off to on.

Phase 2 mitigation measure Unpaved Roads: Reduce speed on unpaved roads to < 15 mph

has been changed from off to on.

Phase 3 mitigation measure Off-Road Diesel Exhaust: Use diesel particulate filter has been changed from off to on.

Phase 3 mitigation measure Off-Road Diesel Exhaust: Use cooled exhaust gas

Page 10

recirculation(EGR)

has been changed from off to on.

Phase 3 mitigation measure Off-Road Diesel Exhaust: Use diesel particulate filter has been changed from off to on.

Phase 3 mitigation measure Off-Road Diesel Exhaust: Use cooled exhaust gas

recirculation(EGR)

has been changed from off to on.

Phase 3 mitigation measure On-Road Diesel Exhaust: Use diesel particulate filter

has been changed from off to on.

Phase 3 mitigation measure On-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR)

has been changed from off to on.

Changes made to the default values for Area

Changes made to the default values for Operations

The operational emission year changed from 2005 to 2007.

Page: 11

02/11/2007 1:35 PM

#### URBEMIS 2002 For Windows 8.7.0

File Name: P:\Northlake Air Quality

Files\Nothlake\_Opeational\_v2.urb

Project Name: Northlake\_Operational\_v2

Project Location: South Coast Air Basin (Los Angeles area) On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

#### DETAIL REPORT (Pounds/Day - Summer)

Construction Start Month and Year: January, 2005

Construction Duration: 24

Total Land Use Area to be Developed: 0 acres Maximum Acreage Disturbed Per Day: 0 acres

Single Family Units: 1270 Multi-Family Units: 480

Retail/Office/Institutional/Industrial Square Footage: 304920

# CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (1bs/day)

			_		PM10	PM10
PM10						
Source	ROG	NOx	CO	S02	TOTAL	
EXHAUST DUST						
*** 2005***						
Phase 1 - Demolition Emissions						
Fugitive Dust	_	-	_	-	0.00	
- 0.00						
Off-Road Diesel	0.00	0.00	0.00	-	0.00	
0.00 0.00						
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	
0.00 0.00						
Worker Trips	0.00	0.00	0.00	0.00	0.00	
0.00 0.00						
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	
0.00 0.00						

Phase 2 - Site Grading Emissions

Noi	thlake	_URBEMIS R	esult.txt		
Fugitive Dust - 0.00	-	-	-	-	0.00
Off-Road Diesel 0.00 0.00	0.00	0.00	0.00	-	0.00
On-Road Diesel 0.00 0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00
0.00 0.00 Maximum 1bs/day 0.00 0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction Bldg Const Off-Road Diesel	0.00	0.00	0.00	-	0.00
0.00 0.00 Bldg Const Worker Trips	0.00	0.00	0.00	0.00	0.00
0.00 0.00 Arch Coatings Off-Gas	0.00	_	_	_	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00
0.00     0.00 Asphalt Off-Gas	0.00	-	-	_	-
 Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00
0.00 0.00 Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00
0.00 0.00 Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00
0.00 0.00 Maximum 1bs/day 0.00 0.00	0.00	0.00	0.00	0.00	0.00
Max lbs/day all phases 0.00 0.00	0.00	0.00	0.00	0.00	0.00
*** 2006***					
Phase 1 - Demolition Emissions Fugitive Dust	_	-	-	-	0.00
- 0.00 Off-Road Diesel	0.00	0.00	0.00	-	0.00
0.00 0.00 On-Road Diesel	0.00	0.00	0.00	0.00	0.00
0.00 0.00 Worker Trips	0.00	0.00	0.00	0.00	0.00
0.00 0.00 Maximum 1bs/day 0.00 0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emission	าร				
Fugitive Dust - 0.00	-	-	-	-	0.00
Off-Road Diesel 0.00 0.00	0.00	0.00	0.00	-	0.00
On-Road Diesel 0.00 0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips 0.00 0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day 0.00 0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction Bldg Const Off-Road Diesel 58.08 0.00		1,307.67	1,492.57	-	58.08
J0.00 U.UU		5 13			

Northlake_URBEMIS Result.txt							
Bldg Const Worker Trips 0.08 1.29	7.74	4.38	92.81	0.01	1.37		
Arch Coatings Off-Gas	552.45	-	-	-	-		
Arch Coatings Worker Trips 0.08 1.29	7.74	4.38	92.81	0.01	1.37		
Asphalt Off-Gas	2.98	-	-	-	-		
Asphalt Off-Road Diesel 0.00 0.00	0.00	0.00	0.00	-	0.00		
Asphalt On-Road Diesel 0.29 0.01	0.67	13.17	2.48	0.20	0.30		
Asphalt Worker Trips 0.00 0.00	0.00	0.00	0.00	0.00	0.00		
Maximum lbs/day 58.53 2.59	759.37	1,329.60	1,680.67	0.22	61.12		
Max lbs/day all phases 58.53 2.59	759.37	1,329.60	1,680.67	0.22	61.12		

Page: 12 02/11/2007 1:35 PM

Phase 1 - Demolition Assumptions: Phase Turned OFF

Phase 2 - Site Grading Assumptions Start Month/Year for Phase 2: Jan '05 Phase 2 Duration: 12 months

On-Road Truck Travel (VMT): 0

Off-Road Equipment

Horsepower Load Factor Hours/Day No. Туре

Phase 3 - Building Construction Assumptions Start Month/Year for Phase 3: Jan '06 Phase 3 Duration: 12 months Start Month/Year for SubPhase Building: Jan '06

SubPhase Building Duration: 6 months

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
4	Graders	174	0.575	8.0
6	Off Highway Trucks	417	0.490	8.0
8	Other Equipment	190	0.620	8.0
8	Rubber Tired Dozers	352	0.590	8.0
3	Rubber Tired Loaders	165	0.465	8.0
30	Scrapers	313	0.660	8.0
Start	Month/Year for SubPhase Ar	chitectural Coatings:	Jan '06	

SubPhase Architectural Coatings Duration: 12 months Start Month/Year for SubPhase Asphalt: Jan '06

SubPhase Asphalt Duration: 6 months

Acres to be Paved: 150

Off-Road Equipment

Horsepower Load Factor Hours/Day No. Туре

CONSTRUCTION EMISSION ESTIMATES MITIGATED (1bs/day)

PM10 PM10

Source EXHAUST DUST	orthlake_u ROG	RBEMIS Res NOx	ult.txt CO	S02	TOTAL
*** 2005***	_				
Phase 1 - Demolition Emissions Fugitive Dust - 0.00	-	_	-	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00
0.00 0.00 Worker Trips 0.00 0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day 0.00 0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissic Fugitive Dust - 0.00	ons -	-	-	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00
Worker Trips 0.00 0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day 0.00 0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction Bldg Const Off-Road Diesel	on 0.00	0.00	0.00	_	0.00
0.00 0.00 Bldg Const Worker Trips	0.00	0.00	0.00	0.00	0.00
0.00 0.00 Arch Coatings Off-Gas	0.00	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00
0.00 0.00 Asphalt Off-Gas	0.00	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	_	0.00
0.00 0.00 Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00
0.00 0.00 Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00
0.00 0.00 Maximum lbs/day	0.00	0.00	0.00	0.00	0.00
0.00 0.00					
Max 1bs/day all phases 0.00 0.00	0.00	0.00	0.00	0.00	0.00
*** 2006***					
Phase 1 - Demolition Emissions Fugitive Dust	5 -	_	_	_	0.00
- 0.00 Off-Road Diesel	0.00	0.00	0.00	_	0.00
0.00 0.00 On-Road Diesel	0.00	0.00	0.00	0.00	0.00
0.00 0.00 Worker Trips	0.00	0.00	0.00	0.00	0.00
0.00 0.00 Maximum lbs/day	0.00	0.00	0.00	0.00	0.00
0.00 0.00	-	- 14	-	-	

Page 14

Phase 2 - Site Grading Emiss Fugitive Dust	sions -	_	_	_	0.00
- 0.00 Off-Road Diesel	0.00	0.00	0.00	_	0.00
0.00 0.00 On-Road Diesel	0.00	0.00	0.00	0.00	0.00
0.00 0.00 Worker Trips	0.00	0.00	0.00	0.00	0.00
0.00 0.00 Maximum lbs/day 0.00 0.00	0.00	0.00	0.00	0.00	0.00
Page: 13 02/11/2007 1:35 PM					
Phase 3 - Building Construct	ion	704 60	140.26		1 74
Bldg Const Off-Road Diesel	18.78	784.60	149.26	_	1.74
Bldg Const Worker Trips 0.08 1.29	7.74	4.38	92.81	0.01	1.37
Arch Coatings Off-Gas	552.45	_	-	-	_
Arch Coatings Worker Trips 0.08 1.29	7.74	4.38	92.81	0.01	1.37
Asphalt Off-Gas	2.98	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00
0.00 0.00 Asphalt On-Road Diesel	0.07	7.90	0.25	0.20	0.02
0.01 0.01 Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00
0.00 0.00 Maximum lbs/day 1.91 2.59	589.75	801.26	335.13	0.22	4.50

# Construction-Related Mitigation Measures

Max 1bs/day all phases

2.59

1.91

Phase 2: Soil Disturbance: Apply soil stabilizers to inactive areas Percent Reduction(ROG 0.0% NOX 0.0% CO 0.0% SO2 0.0% PM10 30.0%)

Phase 2: Soil Disturbance: Replace ground cover in disturbed areas quickly Percent Reduction(ROG 0.0% NOX 0.0% CO 0.0% SO2 0.0% PM10 15.0%)

Phase 2: Soil Disturbance: Water exposed surfaces - 3x daily Percent Reduction(ROG 0.0% NOX 0.0% CO 0.0% SO2 0.0% PM10 50.0%)

Phase 2: Off-Road Diesel Exhaust: Use diesel particulate filter Percent Reduction(ROG 0.0% NOX 0.0% CO 0.0% SO2 0.0% PM10 80.0%)

Phase 2: Off-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR) Percent Reduction(ROG 90.0% NOX 40.0% CO 90.0% SO2 0.0% PM10 85.0%)

Phase 2: On-Road Diesel Exhaust: Use diesel particulate filter Percent Reduction(ROG 0.0% NOX 0.0% CO 0.0% SO2 0.0% PM10 80.0%)

Phase 2: On-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR) Percent Reduction(ROG 90.0% NOX 40.0% CO 90.0% SO2 0.0% PM10 85.0%)

Phase 2: Stockpiles: Cover all stock piles with tarps Percent Reduction(ROG 0.0% NOX 0.0% CO 0.0% SO2 0.0% PM10 9.5%)

Page 15

589.75 801.26

0.22

4.50

335.13

```
Northlake_URBEMIS Result.txt
 Phase 2: Unpaved Roads: Water all haul roads 3x daily
     Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 45.0%)
 Phase 2: Unpaved Roads: Reduce speed on unpaved roads to < 15 mph Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 40.0%) Phase 3: Off-Road Diesel Exhaust: Use diesel particulate filter Percent Reduction(ROG 0.0% NOX 0.0% CO 0.0% SO2 0.0% PM10 80.0%)
 Phase 3: Off-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR) Percent Reduction(ROG 90.0% NOX 40.0% CO 90.0% SO2 0.0% PM10 85.0%)
 Phase 3: Off-Road Diesel Exhaust: Use diesel particulate filter
     Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 80.0%)
 Percent Reduction(ROG 0.0% NOX 0.0% CO 0.0% SO2 0.0% PM10 80.0%)

Phase 3: Off-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR)

Percent Reduction(ROG 90.0% NOX 40.0% CO 90.0% SO2 0.0% PM10 85.0%)

Phase 3: On-Road Diesel Exhaust: Use diesel particulate filter

Percent Reduction(ROG 0.0% NOX 0.0% CO 0.0% SO2 0.0% PM10 80.0%)

Phase 3: On-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR)

Percent Reduction(ROG 90.0% NOX 40.0% CO 90.0% SO2 0.0% PM10 85.0%)
Phase 1 - Demolition Assumptions: Phase Turned OFF
Phase 2 - Site Grading Assumptions
Start Month/Year for Phase 2: Jan '05
Phase 2 Duration: 12 months On-Road Truck Travel (VMT): 0
Off-Road Equipment
                                                                           Horsepower
                                                                                                   Load Factor
                                                                                                                              Hours/Day
   No.
                 Type
Phase 3 - Building Construction Assumptions
Start Month/Year for Phase 3: Jan '06
Phase 3 Duration: 12 months
   Start Month/Year for SubPhase Building: Jan '06
   SubPhase Building Duration: 6 months
   Off-Road Equipment
                                                                                                    Load Factor
                                                                                                                               Hours/Day
   No.
                 Type
                                                                            Horsepower
                 Graders
                                                                                                       0.575
                                                                                                                                   8.0
                                                                                 174
                                                                                                                                    8.0
        6
                Off Highway Trucks
                                                                                 417
                                                                                                       0.490
                 Other Equipment
                                                                                 190
                                                                                                       0.620
                                                                                                                                    8.0
        8
                 Rubber Tired Dozers
                                                                                 352
                                                                                                       0.590
                                                                                                                                    8.0
        3
                 Rubber Tired Loaders
                                                                                 165
                                                                                                       0.465
                                                                                                                                   8.0
                                                                                                       0.660
       30
                 Scrapers
                                                                                 313
                                                                                                                                   8.0
   Start Month/Year for SubPhase Architectural Coatings: Jan '06 SubPhase Architectural Coatings Duration: 12 months Start Month/Year for SubPhase Asphalt: Jan '06 SubPhase Asphalt Duration: 6 months
   Acres to be Paved: 150
   Off-Road Equipment
                                                                                                                              Hours/Day
   No.
                Type
                                                                            Horsepower
                                                                                                   Load Factor
```

Page: 14 02/11/2007 1:35 PM

Page: 15 02/11/2007 1:35 PM

AREA SOURCE EMISSION ESTIMATES (Summer Pounds per Day, Unmitigated)
Source ROG NOX CO SO2 PM10
Page 16

Northlake_URBEMIS Result.txt								
Natural Gas	1.57	20.34	8.99	0	0.04			
Hearth - No summer emissions								
Landscaping	7.55	0.26	49.44	0.57	0.20			
Consumer Prdcts	85.62	_	_	-	_			
Architectural Coatings	55.25	_	_	_	_			
TOTALS(lbs/day,unmitigated)	149.98	20.60	58.43	0.57	0.23			

Page: 16 02/11/2007 1:35 PM

# UNMITIGATED OPERATIONAL EMISSIONS

Single family housing Apartments low rise Industrial park	ROG 117.68 34.33 7.52	NOX 126.50 34.47 10.20	CO 1,391.41 379.17 110.25	SO2 0.82 0.22 0.07	PM10 123.45 33.64 10.04
TOTAL EMISSIONS (1bs/day)	159.53		1,880.82	1.10	167.13

Does not include correction for passby trips.

Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2007 Temperature (F): 90 Season: Summer

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage Trip	Rate	Units Trips
Single family housing	30.00 6.90	trips/dwelling unit	1,270.0012,153.90
Apartments low rise		trips/dwelling unit	480.00 3,312.00
Industrial park		trips/acres	14.00 883.54

Sum of Total Trips 16,349.44
Total Vehicle Miles Traveled 110,094.09

# Vehicle Assumptions:

#### Fleet Mix:

Vehicle Type Light Auto Light Truck < 3,750 lbs Light Truck 3,751- 5,750 Med Truck 5,751- 8,500 Lite-Heavy 8,501-10,000 Lite-Heavy 10,001-14,000 Med-Heavy 14,001-33,000 Heavy-Heavy 33,001-60,000 Line Haul > 60,000 lbs Urban Bus Motorcycle School Bus Motor Home	16.10 7.10 1.10 0.40 1.00 0.90	Non-Catalyst 1.80 3.30 1.90 1.40 0.00 0.00 0.00 0.00 0.00 0.00 82.40 0.00 8.30	Catalyst 97.80 94.00 96.90 95.80 81.80 50.00 20.00 11.10 0.00 0.00 17.60 0.00 83.30	Diesel 0.40 2.70 1.20 2.80 18.20 50.00 80.00 88.90 100.00 100.00 100.00 8.40
		8.30		
Motor Home	1.20	8.30 Page 17	83.30	8.40

#### Travel Conditions

Traver conditions	Residential			Commercial			
Urban Trip Length (miles) Rural Trip Length (miles)	11.5 35.0	Home- Shop 4.9 4.9 40.0 37.0	Home- Other 6.0 6.0 40.0 43.0	Commute 10.3 10.3 40.0	Non-Work 5.5 5.5 40.0	Customer 5.5 5.5 40.0	
% of Trips - Commercial (b Industrial park	y land	use)		41.5	20.8	37.8	

Page: 17

02/11/2007 1:35 PM

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Construction

The user has overridden the Default Phase Lengths

Phase 2 mitigation measure Soil Disturbance: Apply soil stabilizers to inactive areas

has been changed from off to on.

Phase 2 mitigation measure Soil Disturbance: Replace ground cover in disturbed areas quickly

has been changed from off to on.

Phase 2 mitigation measure Soil Disturbance: Water exposed surfaces - 3x daily has been changed from off to on.

Phase 2 mitigation measure Off-Road Diesel Exhaust: Use diesel particulate filter has been changed from off to on.

Phase 2 mitigation measure Off-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR)

has been changed from off to on.

Phase 2 mitigation measure On-Road Diesel Exhaust: Use diesel particulate filter has been changed from off to on.

Phase 2 mitigation measure On-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR)

has been changed from off to on.

Phase 2 mitigation measure Stockpiles: Cover all stock piles with tarps

has been changed from off to on.

Phase 2 mitigation measure Unpaved Roads: Water all haul roads 3x daily has been changed from off to on.

Phase 2 mitigation measure Unpaved Roads: Reduce speed on unpaved roads to < 15 mph has been changed from off to on.

Phase 3 mitigation measure Off-Road Diesel Exhaust: Use diesel particulate filter

has been changed from off to on.
Phase 3 mitigation measure Off-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR)

has been changed from off to on.

Phase 3 mitigation measure Off-Road Diesel Exhaust: Use diesel particulate filter has been changed from off to on.

Phase 3 mitigation measure Off-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR)

has been changed from off to on.

Phase 3 mitigation measure On-Road Diesel Exhaust: Use diesel particulate filter has been changed from off to on.

Phase 3 mitigation measure On-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR)

has been changed from off to on.

Changes made to the default values for Area

Changes made to the default values for Operations

The operational emission year changed from 2005 to 2007.

Page: 18 02/11/2007 1:35 PM

#### URBEMIS 2002 For Windows 8.7.0

P:\Northlake Air Quality File Name:

Files\Nothlake\_Opeational\_v2.urb

Project Name: Northlake\_Operational\_v2

Project Location: South Coast Air Basin (Los Angeles area) On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

#### DETAIL REPORT (Tons/Year)

Construction Start Month and Year: January, 2005

Construction Duration: 24 Total Land Use Area to be Developed: 0 acres Maximum Acreage Disturbed Per Day: 0 acres

Single Family Units: 1270 Multi-Family Units: 480 Retail/Office/Institutional/Industrial Square Footage: 304920

# CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (tons/year)

CONSTRUCTION EMISSION ESTIMATE.	5 01411111	GATED (CONS)	yeary		PM10	PM10
PM10 Source EXHAUST DUST	ROG	NOx	CO	so2	TOTAL	
*** 2005***						
Phase 1 - Demolition Emissions					0.00	
Fugitive Dust - 0.00	-	_	_	_	0.00	
Off-Road Diesel	0.00	0.00	0.00	-	0.00	
0.00 0.00 On-Road Diesel	0.00	0.00	0.00	0.00	0.00	
0.00 0.00 Worker Trips	0.00	0.00	0.00	0.00	0.00	
0.00 0.00 Total tons/year	0.00	0.00	0.00	0.00	0.00	
0.00 0.00						
Phase 2 - Site Grading Emission	ns					
Fugitive Dust - 0.00	-	-	-	-	0.00	
Off-Road Diesel	0.00	0.00	0.00	-	0.00	
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	
0.00 0.00 Worker Trips	0.00	0.00	0.00	0.00	0.00	
0.00 0.00 Total tons/year 0.00 0.00	0.00	0.00	0.00	0.00	0.00	

		_URBEMIS R	esult.txt		
Phase 3 - Building Construct Bldg Const Off-Road Diesel	0.00	0.00	0.00	_	0.00
0.00 0.00 Bldg Const Worker Trips	0.00	0.00	0.00	0.00	0.00
0.00 0.00 Arch Coatings Off-Gas	0.00	-	_	_	-
Arch Coatings Worker Trips 0.00 0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	_	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips 0.00 0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year 0.00 0.00	0.00	0.00	0.00	0.00	0.00
Total all phases tons/yr 0.00 0.00	0.00	0.00	0.00	0.00	0.00
*** 2006***					
Phase 1 - Demolition Emission Fugitive Dust	1S -	_	_	_	0.00
- 0.00 Off-Road Diesel	0.00	0.00	0.00	_	0.00
0.00 0.00 On-Road Diesel	0.00	0.00	0.00	0.00	0.00
0.00 0.00 Worker Trips	0.00	0.00	0.00	0.00	0.00
0.00 0.00 Total tons/year 0.00 0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emiss Fugitive Dust	ions -	-	-	-	0.00
- 0.00 Off-Road Diesel	0.00	0.00	0.00	-	0.00
0.00 0.00 On-Road Diesel	0.00	0.00	0.00	0.00	0.00
0.00 0.00 Worker Trips 0.00 0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year 0.00 0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construct Bldg Const Off-Road Diesel	ion 12.39	86.31	98.51		3.83
3.83 0.00 Bldg Const Worker Trips	0.49	0.26	5.95		0.09
0.01 0.09 Arch Coatings Off-Gas	72.92	0.20	J.JJ	-	0.03
Arch Coatings Worker Trips	0.98	0.51	11.90	0.00	0.18
0.01 0.17 Asphalt Off-Gas	0.20	-	_	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	_	0.00
0.00 0.00 Asphalt On-Road Diesel	0.04	0.79 Page 20	0.16	0.01	0.02

#### Northlake\_URBEMIS Result.txt 0.02 0.00 Asphalt Worker Trips 0.00 0.00 0.00 0.00 0.00 0.00 0.00 Total tons/year 87.02 87.87 116.52 0.01 4.13 3.87 0.26 Total all phases tons/yr 87.02 87.87 116.52 0.01 4.13 3.87 0.26

Page: 19 02/11/2007 1:35 PM

Phase 1 - Demolition Assumptions: Phase Turned OFF

Phase 2 - Site Grading Assumptions Start Month/Year for Phase 2: Jan '05 Phase 2 Duration: 12 months On-Road Truck Travel (VMT): 0

Off-Road Equipment

Horsepower Load Factor Hours/Day No. Туре

Phase 3 - Building Construction Assumptions
Start Month/Year for Phase 3: Jan '06
Phase 3 Duration: 12 months
Start Month/Year for SubPhase Building: Jan '06
SubPhase Building Duration: 6 months
Off-Road Equipment

• • • • • • • •				
No.	Type	Horsepower	Load Factor	Hours/Day
4	Graders	174	0.575	8.0
6	Off Highway Trucks	417	0.490	8.0
8	Other Equipment	190	0.620	8.0
8	Rubber Tired Dozers	352	0.590	8.0
3	Rubber Tired Loaders	165	0.465	8.0
30	Scrapers	313	0.660	8.0

30 Scrapers 313 0.6 Start Month/Year for SubPhase Architectural Coatings: Jan '06

SubPhase Architectural Coatings Duration: 12 months Start Month/Year for SubPhase Asphalt: Jan '06 SubPhase Asphalt Duration: 6 months Acres to be Paved: 150

Off-Road Equipment

No. Туре Horsepower Load Factor Hours/Day

# CONSTRUCTION EMISSION ESTIMATES MITIGATED (tons/year)

					PM10	PM10
PM10						
Source	ROG	NOx	CO	S02	TOTAL	
EXHAUST DUST						
*** 2005***						
Phase 1 - Demolition Emissions						
Fugitive Dust	_	_	_	_	0.00	
- 0.00						
Off-Road Diesel	0.00	0.00	0.00	_	0.00	
0.00 0.00						
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	
0.00 0.00	0.00	0.00	0.00	0.00	0.00	
Worker Trips	0.00	0.00	0.00	0.00	0.00	
worker 111ps	0.00	Page 21	0.00	0.00	0.00	
		raye ZI				

	thlake.	_URBEMIS Re	esult.txt		
0.00 0.00 Total tons/year 0.00 0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emission Fugitive Dust - 0.00	1S -	-	-	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00
0.00 0.00 On-Road Diesel	0.00	0.00	0.00	0.00	0.00
0.00 0.00 Worker Trips	0.00	0.00	0.00	0.00	0.00
0.00 0.00 Total tons/year 0.00 0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction Bldg Const Off-Road Diesel 0.00 0.00	0.00	0.00	0.00	-	0.00
Bldg Const Worker Trips	0.00	0.00	0.00	0.00	0.00
0.00         0.00 Arch Coatings Off-Gas	0.00	_	_	_	_
Arch Coatings Worker Trips 0.00 0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	_	_	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00
Asphalt On-Road Diesel 0.00 0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips 0.00 0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year 0.00 0.00	0.00	0.00	0.00	0.00	0.00
Total all phases tons/yr 0.00 0.00	0.00	0.00	0.00	0.00	0.00
*** 2006*** Phase 1 - Demolition Emissions Fugitive Dust - 0.00	-	-	-	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00
On-Road Diesel 0.00 0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips 0.00 0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year 0.00 0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emission Fugitive Dust	ns -	-	-	-	0.00
- 0.00 Off-Road Diesel	0.00	0.00	0.00	-	0.00
0.00 0.00 On-Road Diesel	0.00	0.00	0.00	0.00	0.00
0.00 0.00 Worker Trips	0.00	0.00	0.00	0.00	0.00
0.00 0.00 Total tons/year	0.00	0.00 Page 22	0.00	0.00	0.00

Page: 20 02/11/2007 1:35 PM

Phase 3 - Building Construct	ion				
Bldg Const Off-Road Diesel	1.24	51.79	9.85	-	0.11
Bldg Const Worker Trips	0.49	0.26	5.95	0.00	0.10
0.01 0.09 Arch Coatings Off-Gas	72.92	-	-	-	-
Arch Coatings Worker Trips	0.98	0.51	11.90	0.00	0.18
0.01 0.17 Asphalt Off-Gas	0.20	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00
Asphalt On-Road Diesel	0.00	0.47	0.02	0.01	0.00
Asphalt Worker Trips 0.00 0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year 0.13 0.26	75.83	53.03	27.72	0.01	0.39
Total all phases tons/yr 0.13 0.26	75.83	53.03	27.72	0.01	0.39

### Construction-Related Mitigation Measures

Phase 2: Soil Disturbance: Apply soil stabilizers to inactive areas Percent Reduction(ROG 0.0% NOX 0.0% CO 0.0% SO2 0.0% PM10 30.0%)
Phase 2: Soil Disturbance: Replace ground cover in disturbed areas quickly Percent Reduction(ROG 0.0% NOX 0.0% CO 0.0% SO2 0.0% PM10 15.0%)
Phase 2: Soil Disturbance: Water exposed surfaces - 3x daily Percent Reduction(ROG 0.0% NOX 0.0% CO 0.0% SO2 0.0% PM10 50.0%)
Phase 2: Off-Road Diesel Exhaust: Use diesel particulate filter Percent Reduction(ROG 0.0% NOX 0.0% CO 0.0% SO2 0.0% PM10 80.0%)
Phase 2: Off-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR) Percent Reduction(ROG 90.0% NOX 40.0% CO 90.0% SO2 0.0% PM10 85.0%)
Phase 2: On-Road Diesel Exhaust: Use diesel particulate filter Percent Reduction(ROG 0.0% NOX 0.0% CO 0.0% SO2 0.0% PM10 85.0%)
Phase 2: On-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR) Percent Reduction(ROG 90.0% NOX 0.0% CO 90.0% SO2 0.0% PM10 85.0%)
Phase 2: Stockpiles: Cover all stock piles with tarps Percent Reduction(ROG 90.0% NOX 0.0% CO 90.0% SO2 0.0% PM10 85.0%)
Phase 2: Unpaved Roads: Water all haul roads 3x daily Percent Reduction(ROG 0.0% NOX 0.0% CO 0.0% SO2 0.0% PM10 45.0%)
Phase 2: Unpaved Roads: Reduce speed on unpaved roads to < 15 mph Percent Reduction(ROG 0.0% NOX 0.0% CO 0.0% SO2 0.0% PM10 40.0%)
Phase 3: Off-Road Diesel Exhaust: Use diesel particulate filter Percent Reduction(ROG 0.0% NOX 0.0% CO 0.0% SO2 0.0% PM10 80.0%)
Phase 3: Off-Road Diesel Exhaust: Use diesel particulate filter Percent Reduction(ROG 0.0% NOX 0.0% CO 0.0% SO2 0.0% PM10 80.0%)
Phase 3: Off-Road Diesel Exhaust: Use diesel particulate filter Percent Reduction(ROG 0.0% NOX 0.0% CO 0.0% SO2 0.0% PM10 80.0%)
Phase 3: Off-Road Diesel Exhaust: Use diesel particulate filter Percent Reduction(ROG 0.0% NOX 0.0% CO 0.0% SO2 0.0% PM10 80.0%)
Phase 3: Off-Road Diesel Exhaust: Use diesel particulate filter Percent Reduction(ROG 0.0% NOX 0.0% CO 0.0% SO2 0.0% PM10 80.0%)
Phase 3: Off-Road Diesel Exhaust: Use diesel particulate filter Percent Reduction(ROG 0.

Percent Reduction(ROG 90.0% NOX 40.0% CO 90.0% SO2 0.0% PM10 85.0%)

Phase 3: On-Road Diesel Exhaust: Use diesel particulate filter

Percent Reduction(ROG 0.0% NOX 0.0% CO 0.0% SO2 0.0% PM10 80.0%)
Phase 3: On-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR)
Percent Reduction(ROG 90.0% NOX 40.0% CO 90.0% SO2 0.0% PM10 85.0%)

Phase 1 - Demolition Assumptions: Phase Turned OFF

Phase 2 - Site Grading Assumptions Start Month/Year for Phase 2: Jan '05

Phase 2 Duration: 12 months On-Road Truck Travel (VMT): 0

Off-Road Equipment

Horsepower Load Factor Hours/Day

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Jan '06'

Phase 3 Duration: 12 months

Start Month/Year for SubPhase Building: Jan '06

SubPhase Building Duration: 6 months

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
4	Graders	174	0.575	8.0
6	Off Highway Trucks	417	0.490	8.0
8	Other Equipment	190	0.620	8.0
8	Rubber Tired Dozers	352	0.590	8.0
3	Rubber Tired Loaders	165	0.465	8.0
30	Scrapers	313	0.660	8.0

Start Month/Year for SubPhase Architectural Coatings: Jan '06

SubPhase Architectural Coatings Duration: 12 months

Start Month/Year for SubPhase Asphalt: Jan '06 SubPhase Asphalt Duration: 6 months Acres to be Paved: 150 Off-Road Equipment

No. Type Horsepower Load Factor Hours/Day

Page: 21 02/11/2007 1:35 PM

Page: 22 02/11/2007 1:35 PM

AREA SOURCE EMISSION ESTIMATES	(Tons p	er Year,	Unmitigated)		
Source	ROG	NOX	CO	S02	PM10
Natural Gas	0.29	3.71	1.64	0.00	0.01
Hearth	40.71	1.08	74.35	0.18	11.08
Landscaping	0.68	0.02	4.45	0.05	0.02
Consumer Prdcts	15.62	_	_	-	_
Architectural Coatings	7.29	_	_	_	_
TOTALS (tpy, unmitigated)	64.59	4.82	80.44	0.23	11.10

02/11/2007 1:35 PM

#### UNMITIGATED OPERATIONAL EMISSIONS

Single family housing Apartments low rise Industrial park	ROG 20.99 6.00 1.41	NOX 26.54 7.23 2.14	CO 249.35 67.95 19.65	S02 0.14 0.04 0.01	PM10 22.53 6.14 1.83
TOTAL EMISSIONS (tons/yr)	28.40	35.92	336.95	0.19	30.50

Does not include correction for passby trips.

Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2007 Season: Annual

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Total Units Trips
Single family housing Apartments low rise Industrial park	423.33 30.00	9.57 trips/dwelling unit 6.90 trips/dwelling unit 63.11 trips/acres	1,270.0012,153.90 480.00 3,312.00 14.00 883.54

Sum of Total Trips 16,349.44
Total Vehicle Miles Traveled 110,094.09

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	55.20	1.80	97.80	0.40
Light Truck $< 3,750$ lbs	s 15.10	3.30	94.00	2.70
Light Truck 3,751- 5,750	0 16.10	1.90	96.90	1.20
Med Truck 5,751- 8,500		1.40	95.80	2.80
Lite-Heavy 8,501-10,000	0 1.10	0.00	81.80	18.20
Lite-Heavy 10,001-14,000	0.40	0.00	50.00	50.00
Med-Heavy 14,001-33,000	1.00	0.00	20.00	80.00
Heavy-Heavy 33,001-60,000	0.90	0.00	11.10	88.90
Line Haul > 60,000 lbs	s 0.00	0.00	0.00	100.00
Urban Bus	0.10	0.00	0.00	100.00
Motorcycle	1.70	82.40	17.60	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	1.20	8.30	83.30	8.40

Travel Conditions

	Residential			Commercial		
	Home-	Home-	Home-			
	Work	Shop	Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Rural Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Trip Speeds (mph)	35.0	40.0	40.0	40.0	40.0	40.0
% of Trips - Residential	20.0	37.0	43.0			

% of Trips - Commercial (by land use)

41.5 Industrial park 20.8 37.8

Page: 24

02/11/2007 1:35 PM

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Construction

The user has overridden the Default Phase Lengths

Phase 2 mitigation measure Soil Disturbance: Apply soil stabilizers to inactive areas

has been changed from off to on.

Phase 2 mitigation measure Soil Disturbance: Replace ground cover in disturbed areas

has been changed from off to on.

Phase 2 mitigation measure Soil Disturbance: Water exposed surfaces - 3x daily

has been changed from off to on.

Phase 2 mitigation measure Off-Road Diesel Exhaust: Use diesel particulate filter has been changed from off to on.

Phase 2 mitigation measure Off-Road Diesel Exhaust: Use cooled exhaust gas

recirculation(EGR)

has been changed from off to on.

Phase 2 mitigation measure On-Road Diesel Exhaust: Use diesel particulate filter has been changed from off to on.

Phase 2 mitigation measure On-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR)

has been changed from off to on.
Phase 2 mitigation measure Stockpiles: Cover all stock piles with tarps has been changed from off to on.

Phase 2 mitigation measure Unpaved Roads: Water all haul roads 3x daily has been changed from off to on.

Phase 2 mitigation measure Unpaved Roads: Reduce speed on unpaved roads to < 15 mph has been changed from off to on.

Phase 3 mitigation measure Off-Road Diesel Exhaust: Use diesel particulate filter has been changed from off to on.

Phase 3 mitigation measure Off-Road Diesel Exhaust: Use cooled exhaust gas

recirculation(EGR)

has been changed from off to on.

Phase 3 mitigation measure Off-Road Diesel Exhaust: Use diesel particulate filter has been changed from off to on.

Phase 3 mitigation measure Off-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR)

has been changed from off to on.

Phase 3 mitigation measure On-Road Diesel Exhaust: Use diesel particulate filter has been changed from off to on.

Phase 3 mitigation measure On-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR)

has been changed from off to on.

Changes made to the default values for Area

Changes made to the default values for Operations

The operational emission year changed from 2005 to 2007.